Seat No.:	Enrolment No.
Deat 110	

GUJARAT TECHNOLOGICAL UNIVERSITY

	U	BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2016 Code:2150207 Date:17/05/20	16
Ti	me:02 structio	Attempt all questions. Make suitable assumptions wherever necessary.	70
Q.1	(a) (b)	Differentiate between single plate clutch and diaphragm clutch. Why different types of location of transmission system are used in the different four wheeler?	07 07
Q.2	(a)	Define the term double declutching and synchronizing and also explain the working of synchronizing unit.	07
	(b)	Briefly discuss about torque converter with the figure. OR	07
	(b)	Draw the layout of fluid coupling and explain it with principle and construction of it.	07
Q.3	(a) (b)	Write a short note on drive system in hybrid vehicle. Explain constant mesh gearbox with neat sketch.	07 07
	(D)	OR	U1
Q.3	(a) (b)	What is lining material? And also explain the types of friction lining material. What is the requirement of the gear ratio in vehicle transmission? Give the causes for noise produced by the gear box in neutral position.	
Q.4	(a) (b)	Explain two wheel, four wheel drive and multi axle drive system. Explain the Comparison between hydrostatic drive and hydrodynamic drive. OR	
Q.4	(a) (b)	Explain the principle, types and advantages of Hydrostatic drive. Discuss the principle of early and modified Ward Leonard Control system.	07 07
Q.5	(a)	Explain the Automatic Transmission with Intelligent Electronic controls system.	07
	(b)	Enlist different types of gear shifting mechanism and explain any two in brief. OR	07
Q.5	(a) (b)	Explain function and concept of Chevrolet turbo glide transmission. Explain the centrifugal clutch with neat sketch.	07 07
